

REMARKS

The Examiner's Action mailed on September 21, 2007, has been received and its contents carefully considered. Additionally attached to this Amendment is a Petition for a One-month Extension of Time, extending the period for response to January 21, 2008.

In this Amendment, Applicants have amended claims 37, 39, 40, 42-44, 47, 51, 52, 55, 56, 59, and 60. Claims 62 and 63 have been added. Claims 37 and 49 are the independent claims, and claims 37-62 are pending in the application. For at least the following reasons, it is submitted that this application is in condition for allowance.

The Examiner has rejected claim 60 under 35 USC, Section 112, first paragraph, as failing to comply with the written description requirement. In response, claim 60 has been amended in a manner that is consistent with the original disclosure. In particular, the Examiner's attention is directed to page 6, lines 1-3 of the original disclosure, where it is disclosed that the inorganic substrate 10 is fully covered by the organic substrate 20. It is thus requested that this rejection be withdrawn.

The Examiner has rejected claims 37-40, 42-45, and 48 as being obvious over *Shaheen* in view of *Hashemi et al.* It is submitted that these claims are *prima facie* patentably distinguishable over the cited combination of references for at least the following reasons.

Applicants' independent claim 37 is directed to a composite laminated substrate which includes, *inter alia*, an inorganic substrate having at least one passive component imbedded therein, and an organic substrate laminated to one side of the inorganic substrate. This claimed invention has the advantages discussed in Applicants' specification, and is not disclosed or suggested by the cited references.

The Examiner has relied on the teachings of the newly cited patent to *Shaheen* as disclosing an inorganic substrate 18 having at least one passive component 14, 20 imbedded therein. This reference discloses that feature 14 is an electrically conductive post which extends through a hole 20 formed in the ceramic layer 18, and engages with the organic layer 10, so that a surface trace 22 that is disposed on the upper surface of the ceramic layer 18 can be in electrical engagement with the organic layer 10.

As noted above, the Examiner's Action has equated the post 14 and the hole 20 as being the equivalent of Applicants' claimed passive components. However, it is initially noted that a passive component is typically defined as a component of an electrical circuit that is not a source of energy, and includes, for example, capacitors, inductors, and/or resistors. It is initially respectfully submitted that neither the post 14 nor the hole 20 meets the definition of a passive component. Applicants are not aware of any definition which would allow these features to be construed as passive components. The post 14 is only acting as a conductor, not as a passive component. The hole is simply a hole, and is only an

empty space. Furthermore, since this reference teaches that the post 14 is disposed within a hole formed within the ceramic layer 18, then it is respectfully submitted that the post 14 cannot be construed as being imbedded within the ceramic layer 18, as would be required by Applicants' claimed invention. It is thus requested that this claim, and the claims dependent therefrom, be allowed and that these rejections be withdrawn.

The Examiner's Action has also rejected claims 41 and 46 as being obvious over *Shaheen* and *Hashemi et al.*, and further in view of *Nishide et al.* However, because *Nishide et al.* do not overcome the above-noted deficiencies of *Shaheen* and *Hashemi et al.*, it is submitted that dependent claims 41 and 46 are *prima facie* patentably distinguishable over the cited combination of references for at least the same reasons as independent claim 37, as well as for the additional features recited therein. It is requested that these claims be allowed and that these rejections be withdrawn.

The Examiner's Action has also rejected claims 47, 49-52, 54-57, and 59-61 as being obvious over *Shaheen* and *Hashemi et al.*, and further in view of *Berger et al.* Because *Berger et al.* do not overcome the above-noted deficiencies of *Shaheen* and *Hashemi et al.*, it is submitted that dependent claim 47 is *prima facie* patentably distinguishable over the cited combination of references for at least the same reasons as independent claim 37, as well as for the additional features recited thereby. Furthermore, independent claim 49, and the claims

dependent therefrom, are submitted to be *prima facie* patentably distinguishable over the cited combination of references for at least the following reasons.

Claim 49 is directed to a composite laminated substrate which includes, *inter alia*, an inorganic substrate having at least one passive component formed thereon or imbedded therein, as well as two organic substrates which are laminated to respective sides of the inorganic substrate. This claimed invention has the advantages discussed by Applicants' specification, and is neither disclosed nor suggested by the cited combination of references.

As noted above, neither *Shaheen* nor *Hashemi et al.* disclose or suggest Applicants' claimed inorganic substrate having a passive component formed thereon or imbedded therein, as recited by claim 49. Further, *Berger et al.* do not overcome this deficiency. Moreover, it is noted that the Examiner's Action has acknowledged that neither *Shaheen* nor *Hashemi et al.* teach two organic substrates that are laminated to respective sides of the inorganic substrate, and thus relies on the teachings of *Berger et al.* to overcome this admitted deficiency. However, it is noted that the primary reference of *Shaheen* specifically discloses that "all of the layers of the multi-layer substrate, other than the outer layer, are organic layers: the outer layer is the only ceramic layer." Since this reference teaches that the outer layer is the only ceramic (inorganic) layer, then this reference teaches away from a ceramic (inorganic) layer that has two organic substrates laminated on respective sides thereof, as recited by Applicants' independent claim 49. That is, one skilled in the art, to whom the present

invention is directed, would not have modified *Shaheen* to have provided an organic layer on opposite sides of the inorganic layer 18, since to do so would place the ceramic (inorganic) layer in a position in which it would no longer be the outer layer, which would be against the teachings of this reference. Thus, one can logically conclude that it is only in light of Applicants' own disclosure that such a modification becomes desirable. Such hindsight reconstruction is impermissible and contrary to the teachings of 35 USC, Section 103. It is thus requested that claim 49, and the claims dependent therefrom, be allowed and that these rejections be withdrawn.

The Examiner's Action has also rejected claims 53 and 58 as being obvious over *Shaheen*, *Hashemi et al.* and *Berger et al.*, and further in view *Nishide et al.* However, because *Nishide et al.* do not overcome the above-noted deficiencies of other cited references, and because claims 53 and 58 depend from independent claim 49, it is submitted that these dependent claims are *prima facie* patentably distinguishable over the cited combination of references for at least the same reasons as independent claim 49, as well as for the additional features recited therein. It is requested that these claims be allowed and that these rejections be withdrawn.

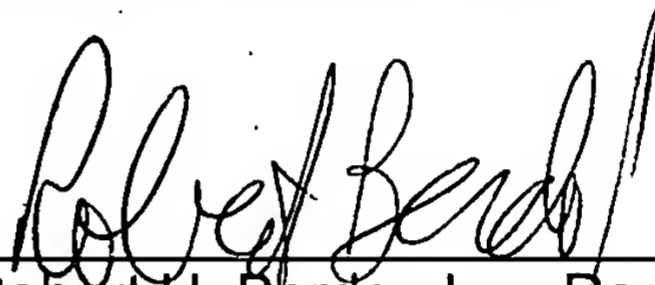
It is submitted that this application is in condition for allowance. Such action, and the passing of this case to issue are requested.

Should the Examiner feel that a conference would help to expedite the prosecution of this application, the Examiner is hereby invited to contact the undersigned counsel to arrange for such an interview.

Should the remittance be accidentally missing or insufficient, the Director is hereby authorized to charge the fee to our Deposit Account No. 18-0002.

Respectfully submitted,

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Date



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